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Application No. 10/731,606
Amendment dated January 16, 2009

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AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listing, of claims in the application.

Listing of Claims:

1 (Currently amended). An image forming apparatus ~~including comprising:~~
_____ an acquisition unit for acquiring an image signal;
_____ a sheet having one or a plurality of memories;
_____, ~~and an image forming unit for forming an image based on the image signal~~
~~acquired by said acquisition unit; on a sheet having one or a plurality of memories,~~
~~comprising:~~
an encryption key creating unit for creating an encryption key when said
acquisition unit acquires an image signal;
an encrypting unit for encrypting the image signal with the encryption key created
by said encryption key creating unit; and
a writing unit for writing the encryption key and the encrypted image signal into
the one or a plurality of memories memory on said sheet; ~~having one or a plurality of~~
~~memories,~~
_____ a reading unit for reading an encrypted image and encryption key from the
sheet; and
_____ a decryption unit for decrypting the encrypted image using the encryption key
read by the reading unit.
_____ ~~wherein said image forming unit forms an image based on the image signal~~
~~encrypted by said encrypting unit on said sheet having one or a plurality of memories.~~

2 (Currently amended). The image forming apparatus of claim 1, ~~further comprising~~
wherein the reading unit further comprises:

an image reading unit for reading the image formed on said sheet having one or
a plurality of memories; and

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a memory reading unit for reading the encryption key from the memory when said image reading unit reads the image; and
~~— a decrypting unit for decrypting the image signal of the image read by said image reading unit, with the encryption key read by said memory reading unit,~~
~~— wherein said image forming unit forms an image based on the image signal decrypted by said decrypting unit on another sheet.~~

3 (Previously presented). The image forming apparatus of claim 1, further comprising an information acquiring/creating unit for acquiring or creating information about the image encrypted with the encryption key,

wherein said writing unit writes the encryption key and the information acquired or created by said information acquiring/creating unit into the same memory, or different memories on said sheet having one or a plurality of memories.

4 (Previously presented). The image forming apparatus of claim 2,

wherein said memory reading unit reads the encryption key and information about the image encrypted with the encryption key from the same memory, or different memories on said sheet having one or a plurality of memories, when said image reading unit reads the image, and said image forming apparatus further comprises a display unit for displaying the information read by said memory reading unit.

5 (Previously presented). The image forming apparatus of claim 4, wherein

the information read by said memory reading unit includes the number of times the image based on the decrypted image signal of the read image was formed, and said writing unit writes the number of times obtained by adding one to the number read by said memory reading unit into the same memory or different memory on said sheet having one or a plurality of memories so as to update the number of times.

6 (Previously presented). The image forming apparatus of claim 5; wherein

said image forming unit forms a number indicating the number of times obtained by adding one to the memory on said sheet having one or a plurality of memories when

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forming the image based on the decrypted image signal on said sheet having one or a plurality of memories.

7 (Original). The image forming apparatus of claim 6, wherein
said image forming unit forms the number in a visually inconspicuous form within a region where the image is formed.

8 (Original). The image forming apparatus of claim 5, wherein
the information read by said memory reading unit includes the number of times the image based on the decrypted image signal of the read image was formed and a predetermined numerical value, and said image forming apparatus further comprises: a judging unit for judging whether the number read by said memory reading unit is larger or smaller than the predetermined numerical value; and a prohibiting unit for prohibiting said decrypting unit from decrypting the image signal with the encryption key when said judging unit judges that the number is larger.

9 (Original). The image forming apparatus of claim 4, wherein
the information read by said memory reading unit includes a period, and said image forming apparatus further comprises: a timer; a judging unit for judging whether or not a time shown by said timer is within the period read by said memory reading unit; and a prohibiting unit for prohibiting said decrypting unit from decrypting the image signal with the encryption key when said judging unit judges that the time is within the read period.

10 (Original). The image forming apparatus of claim 4, wherein
the information read by said memory reading unit includes one or a plurality of identifiers of image forming apparatus,

said image forming apparatus further comprises: a storing unit for storing an identifier; and a judging unit for judging whether or not the identifiers read by said memory reading unit include the identifier stored in said storing unit, and

said decrypting unit decrypts the image signal with the encryption key only when said judging unit judges that the read identifiers include the stored identifier.

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11 (Original). The image forming apparatus of claim 4, wherein
the information read by said memory reading unit includes a code,
said image forming apparatus further comprises: an input unit for inputting a
code; and a judging unit for judging whether or not the code inputted by said input unit
and the code read by said memory reading unit are identical, and
said decrypting unit decrypts the image signal with the encryption key only when
said judging unit judges that the codes are identical.

12 (Previously presented). An image forming apparatus including an image reading unit
for reading an image formed on a sheet having one or a plurality of memories storing an
encryption key, and an image forming unit for forming an image on a sheet, based on
an image signal of the image read by said image reading unit, comprising:

a memory reading unit for reading the encryption key from the memory on said
sheet having one or a plurality of memories when said image reading unit reads the
image; and

a decrypting unit for decrypting the image signal of the image read by said image
reading unit, with the encryption key read by said memory reading unit,

wherein said image forming unit forms an image based on the image signal
decrypted by said decrypting unit on another sheet.

13 (Previously presented). The image forming apparatus of claim 12, wherein
said memory reading unit reads the encryption key and information about the
image encrypted with the encryption key from the same or different memories on said
sheet having one or a plurality of memories when said image reading unit reads the
image, and said image forming apparatus further comprises a display unit for displaying
the information read by said memory reading unit.

14 (Previously presented). The image forming apparatus of claim 13, wherein
the information read by said memory reading unit includes the number of times
the image based on the decrypted image signal of the read image was formed, and said
writing unit writes the number of times obtained by adding one to the number read by

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said memory reading unit into the same memory or different memory on said sheet having one or a plurality of memories so as to update the number of times.

15 (Previously presented). The image forming apparatus of claim 14, wherein
said image forming unit forms a number indicating the number of times obtained by adding one to the memory on said sheet having one or a plurality of memories when forming the image based on the decrypted image signal on another sheet .

16 (Previously presented). The image forming apparatus of claim 15, wherein
said image forming unit forms the number in a visually inconspicuous form within a region where the decrypted image is formed.

17 (Original). The image forming apparatus of claim 14, wherein
the information read by said memory reading unit includes the number of times the image based on the decrypted image signal of the read image was formed and a predetermined numerical value, and said image forming apparatus further comprises: a judging unit for judging whether the number read by said memory reading unit is larger or smaller than the predetermined numerical value; and a prohibiting unit for prohibiting said decrypting unit from decrypting the image signal with the encryption key when said judging unit judges that the number is larger.

18 (Original). The image forming apparatus of claim 13, wherein
the information read by said memory reading unit includes a period, and said image forming apparatus further comprises: a timer; a judging unit for judging whether or not a time shown by said timer is within the period read by said memory reading unit; and a prohibiting unit for prohibiting said decrypting unit from decrypting the image signal with the encryption key when said judging unit judges that the time is within the read period.

19 (Original). The image forming apparatus of claim 13, wherein
the information read by said memory reading unit includes one or a plurality of identifiers of image forming apparatus,

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said image forming apparatus further comprises: a storing unit for storing an identifier; and a judging unit for judging whether or not the identifiers read by said memory reading unit include the identifier stored in said storing unit, and

said decrypting unit decrypts the image signal with the encryption key only when said judging unit judges that the read identifiers include the stored identifier.

20 (Original). The image forming apparatus of claim 13, wherein the information read by said memory reading unit includes a code,

said image forming apparatus further comprises: an input unit for inputting a code; and a judging unit for judging whether or not the code inputted by said input unit and the code read by said memory reading unit are identical, and

said decrypting unit decrypts the image signal with the encryption key only when said judging unit judges that the codes are identical.

21. (New) An image forming apparatus comprising:

a sheet having one or a plurality of memories containing an encryption key and an encrypted image;

a reading unit for reading an encrypted image signal and encryption key from the sheet; and

an image forming unit for forming an image based on the encrypted image signal and encryption key read by said reading unit.

22. (New) The image forming apparatus of claim 21, wherein said sheet comprises a first memory containing an encryption key and a second memory containing an encrypted image.

23. (New) The image forming apparatus of claim 2, wherein said sheet comprises a first memory containing an encryption key and a second memory containing an encrypted image.

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24 (New). The image forming apparatus of claim 23, wherein said memory reading unit reads the encryption key and information about the image encrypted with the encryption key from said first memory on said sheet when said image reading unit reads the image, and said image forming apparatus further comprises a display unit for displaying the information read by said memory reading unit.

25 (New). The image forming apparatus of claim 24, wherein the information read by said memory reading unit includes the number of times the image based on the decrypted image signal of the read image was formed, and said writing unit writes the number of times obtained by adding one to the number read by said memory reading unit into the first memory on said sheet so as to update said number of times.

26 (New). The image forming apparatus of claim 25, wherein said image forming unit forms a number indicating the number of times obtained by adding one to the first memory on said sheet when forming the image based on the decrypted image signal of the read encrypted image.

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